



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

November 10, 2021

Scott Baker
Regulatory Agent
ARCANA, LLC.
2225 Q Street
Aurora, NE 68818

Subject: Registration Review Label Amendments Incorporating Mitigation Measures from the Atrazine and Metolachlor Interim Decisions; the Technical Registrants' Commitments for the Endangered Species Act (ESA) Biological Evaluation for Atrazine; and the Biological Opinion for Metolachlor
Product Name: ARC-METOLAZINE HERBICIDE
EPA Registration Number: 84930-23
Application Dates: January 27, 2021 and October 26, 2021
Decision Numbers: 579353,573478

Dear Mr. Baker:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Atrazine and Metolachlor Interim Decisions, the atrazine technical registrants' commitments for the ESA Biological Evaluation, and the Biological Opinion for metolachlor. The Agency has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only

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distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact DeMariah Koger at koger.demariah@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Linda Arrington", with a stylized flourish at the end.

Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure

RESTRICTED USE PESTICIDE

(Ground and Surface Water Concerns)

For retail sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

This product is a restricted use herbicide due to ground and surface water concerns. Users must read and follow all precautionary statements and instructions for use in order to minimize potential for atrazine to reach ground and surface water.



ATRAZINE	GROUP	5	HERBICIDE
METOLACHLOR S-METOLACHLOR	GROUP	15	HERBICIDE

ARC-METOLAZINE HERBICIDE

FOR WEED CONTROL IN FIELD CORN

ACTIVE INGREDIENTS:	% BY WT.
Atrazine	33.1%
Atrazine Related Compounds	0.6%
Metolachlor	26.1%
OTHER INGREDIENTS:	40.2%
TOTAL:	100.0%

This product contains 3.1 pounds of Atrazine and related compounds per gallon and 2.4 pounds of Metolachlor active ingredient per gallon.

[SHAKE WELL BEFORE USING]
[RECIRCULATE CONTENTS BEFORE USE]

KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300.

[See Inside booklet for additional PRECAUTIONARY STATEMENTS.]
[See inside booklet for additional Precautionary Statements and Directions for Use.]

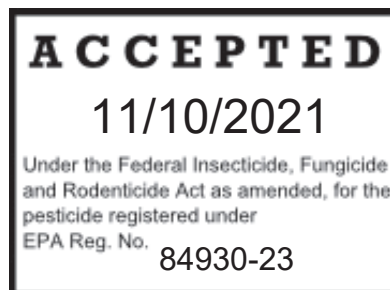
Not for Sale, Sale into, Distribution and/or Use in Nassau and Suffolk Counties of New York State.

EPA Reg. No.: 84930-23

EPA Est. No.: _____

NET CONTENTS: ____ GAL (____ L)

Manufactured for:
ARCANA, LLC
2225 Q STREET
AURORA, NE 68818



102521

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • DO NOT induce vomiting unless told to do so by a poison control center or doctor. • DO NOT give anything by mouth to an unconscious or convulsing person.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
HOTLINE NUMBER	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 or your poison control center at 1-800-222-1222. For Chemical Spill, Leak, Fire or Exposure, call CHEMTREC 800-424-9300.</p>	

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION: Harmful if absorbed through skin. Harmful if swallowed. Avoid contact with skin, eyes, or clothing. This product may cause skin sensitization reactions in some people.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, applicators, flaggers and other handlers must wear: Coveralls over short pants and short-sleeved shirt, chemical-resistant gloves made of barrier laminate, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥ 14 mils, chemical-resistant footwear plus socks, a chemical-resistant apron when mixing/loading, cleaning up spills, or cleaning equipment, or otherwise exposed to the concentrate, and chemical resistant headgear for overhead exposure.

See engineering controls for additional requirements.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this products' concentrate. **DO NOT** reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS

Water soluble packets, when used correctly, qualify as a closed mixing/loading system under the Worker Protection Standard [40 CFR 170.607(d)]. Mixers and loaders handling this product while it is enclosed in intact water soluble packets may elect to wear reduced PPE of long-sleeved shirt, long pants, shoes, socks. When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

Mixers and loaders supporting aerial applications must use a closed system that meets the requirements for dermal protection listed in the WPS for Agricultural Pesticides [40 CFR 170.240(d)(4)] and must:

- wear the PPE required above for mixers and loaders,
- wear protective eyewear if the system operates under pressure, and
- be provided and have immediately available for use in an emergency, such as a spill or equipment breakdown: chemical-resistant footwear.

Pilots must use an enclosed cockpit in a manner that is consistent with the WPS Standard for Agricultural Pesticides [40 CFR 170.240(d)(6)]. Pilots must wear the PPE required on this labeling for applicators, however, they need not wear chemical-resistant gloves when using an enclosed cockpit. Flaggers supporting aerial applications must use an enclosed cab that meets the definition on the WPS Standard for Agricultural Pesticides [40 CFR 170.240(d)(5)] for dermal protection.

When applicators use enclosed cabs in a manner that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(4-5)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should: 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 3) Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide contains atrazine, which has been shown to be toxic to aquatic invertebrates. **DO NOT** apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. **DO NOT** apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. **DO NOT** contaminate water when cleaning equipment or disposing of equipment washwaters.

Ground Water Advisory

This product contains both the active ingredients atrazine and metolachlor. Atrazine can travel (seep or leach) through soil and can enter ground water which may be used as drinking water. Atrazine has been found in ground water. Users are advised not to apply atrazine to sand and loamy sand soils where the water table (ground water) is close to the surface and where these soils are very permeable, i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water. Metolachlor/S-Metolachlor is known to leach through soil into groundwater under certain conditions as a result of label use. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Surface Water Advisory

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several weeks or months after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of metolachlor/S-metolachlor from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

Non-Target Organism Advisory

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

Reporting Ecological Incidents:

To report ecological incidents, including mortality, injury, or harm to plants and animals, call 844-425-8488.

MIXING/LOADING INSTRUCTIONS

Care must be taken when using this product to prevent back-siphoning into wells, spills, or improper disposal of excess pesticide, spray mixtures, or rinsates.

Check-valves or antisiphoning devices must be used on all mixing equipment. This product must not be mixed/loaded or used within 50 feet of all wells, including abandoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment

leaks, container or equipment rinse or wash water, and rain water that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities **DO NOT** apply to vehicles when delivering pesticide shipments to the mixing/loading site.

Additional requirements regarding well-head setbacks and operational area containment imposed by State where product is used must be observed.

This product must not be mixed or loaded within 50 feet of perennial or intermittent streams and rivers, natural or impounded lakes and reservoirs. This product must not be applied aerially or by ground within 66 feet of the points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet around natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66-foot buffer or setback from runoff entry points must be planted to crop, or seeded with grass or other suitable crop.

Soluble Packages (WSPs) are designed to dissolve in water. Agitation may be used, if necessary, to help dissolve the WSP. Failure to follow handling and mixing instructions can increase your exposure to the pesticide products in WSPs. WSPs, when used properly, qualify as a closed mixing/loading system under the Agricultural Worker Protection Standard [40 CFR 170.607(d)].

Handling Instructions

Follow these steps when handling pesticide products in WSPs.

1. Mix in spray tank only.
2. Handle the WSP in a manner that protects package from breakage and/or unintended release of contents. If package is broken, put on PPE required for clean-up and then continue with mixing instructions.
3. Keep the WSP in outer packaging until just before use.
4. Keep the WSP dry prior to adding to the spray tank.
5. Handle with dry gloves and according to the label instructions for PPE.
6. Keep the WSP intact. Do not cut or puncture the WSP.
7. Reseal the WSP outer packaging to protect any unused WSP(s).

Mixing Instructions

Follow the steps below when mixing this product, including if it is tank-mixed with other pesticide products. If being tank-mixed, the mixing directions 1 through 9 below take precedence over the mixing directions of the other tank mix products. WSPs may, in some cases, be mixed with other pesticide products so long as the directions for use of all the pesticide product components do not conflict. Do not tank-mix this product with products that prohibit tank-mixing or have conflicting mixing directions.

1. If a basket or strainer is present in the tank hatch, remove prior to adding the WSP to the tank.
2. Fill tank with water to approximately one-third to one-half of the desired final volume of spray.
3. Stop adding water and stop any agitation.
4. Place intact/unopened WSP into the tank.
5. Do not spray water from a hose or fill pipe to break or dissolve the WSP.
6. Start mechanical and recirculation agitation from the bottom of tank without using any overhead recirculation, if possible. If overhead recirculation cannot be turned off, close the hatch before starting agitation.
7. Dissolving the WSP may take up to 5 minutes or longer, depending on water temperature, water hardness and intensity of agitation.
8. Stop agitation before tank lid is opened.

9. Open the lid to the tank, exercising caution to avoid contact with dusts or spray mix, to verify that the WSP has fully dissolved and the contents have been thoroughly mixed into the solution.
10. Do not add other allowed products or complete filling the tank until the bags have fully dissolved and pesticide is thoroughly mixed.
11. Once the WSP has fully dissolved and any other products have been added to the tank, resume filling the tank with water to the desired level, close the tank lid, and resume agitation.
12. Use the spray solution when mixing is complete.
13. Maintain agitation of the diluted pesticide mix during transport and application.
14. It is unlawful to use any registered pesticide, including WSPs, in a manner inconsistent with its label.

Tile-Outletted Terraced Fields Containing Standpipes

One of the following restrictions must be used in applying atrazine to tile-outletted terraced fields containing standpipes:

1. **DO NOT** apply this product within 66 feet of standpipes in tile-outletted terraced fields.
2. Apply this product to the entire tile-outletted terraced field and immediately incorporate it to a depth of 2 to 3 inches in the entire field.
3. Apply this product to the entire tile-outletted terraced field under a no-till practice only when a high crop residue management practice is practiced. High crop residue management practice is described as a crop management practice where little or no crop residue is removed from the field during and after crop harvest.

DIRECTIONS FOR USE RESTRICTED USE PESTICIDE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

ANY USE OF THIS PRODUCT IN AN AREA WHERE USE IS PROHIBITED IS A VIOLATION OF FEDERAL LAW. Before using this product, you must consult the Atrazine Watershed Information Center (AWIC) to determine whether the use of this product is prohibited in your watershed. AWIC can be accessed through www.atrazine-watershed.info, or 1-866-365-3014. If use of this product is prohibited in your watershed, you may return this product to your point of purchase or contact ARCANA, LLC for a refund.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the Agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

Exception: If the product is soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposures

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND USE PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

Not for Sale, Sale into, Distribution and/or Use in Nassau and Suffolk Counties of New York State.

USE INFORMATION

This product is a selective herbicide that can be applied before planting, before or after emergence (see directions) for control of most annual grasses and broadleaf weeds in Field corn, popcorn and Sweet corn. This product may also be tank-mixed with other herbicides specified on this label for weed control in conventional, minimum-till, and no-till Corn.

Endangered Species Protection Requirements:

It is a Federal offense to use any pesticide in a manner that results in an unauthorized take (e.g., kill or otherwise harm) of an endangered species and certain threatened species, under the Endangered Species Act section 9. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than six months before using this product. To obtain Bulletins, consult <http://www.epa.gov/espp/>, call 1-844-447-3813, or email ESPP@epa.gov. You must use the Bulletin valid for the month in which you will apply the product.

Precautions

- Tank mixtures are permitted only in those states where the tank mix partner is registered. For each tank mix partner used, refer to and follow the label precautionary statements, direction for use, geographic, and other restrictions. Follow the most restrictive language on this label, or the label of the tank mix partner. Following many years of continuous use of atrazine (one of the ingredients in this product), and other products chemically related to atrazine, biotypes of some of the weeds listed on this label which are controlled by the atrazine component have been reported to develop resistance to this and other chemically related herbicides. Where this is known or suspected, and weeds controlled by this product are expected to be present along with resistant biotypes, we recommend the use of this product in combination or in sequence with registered herbicides which do not contain triazines. Consult with your State Agricultural Extension Service for specific recommendations. Refer to the "Resistance Management" section of this label for additional information.
- This product alone or in tank mixture with atrazine, isoxaflutole, metolachlor, S-metolachlor, or simazine may be applied early preplant, preplant surface, preplant incorporated, or preemergence on Corn, in water or fluid fertilizer. Apply postemergence treatments of this product to Corn, alone or in combination, using water only as the carrier. This product may be applied in tank mix combination with glyphosate, glyphosate + 2,4-D or paraquat with or without the above herbicides for preplant surface or preemergence applications to Corn.
- This product may be applied in water by aircraft. Applications in fluid fertilizer should be only by ground equipment.
- To avoid spray drift, **DO NOT** apply under windy conditions.
- Avoid spray overlap, as crop injury may result.
- Where reference is made to weeds partially controlled, partial control can either mean erratic control from good to poor or consistent control at a level below that generally considered acceptable for commercial weed control.
- Weed control effectiveness may be reduced in dry weather conditions following preemergence application of this product. Cultivate the field if weeds develop in conventional tillage corn.
- Sprayer or applicator contaminated with other materials may cause crop damage or sprayer clogging of the application device. Thoroughly clean sprayer or other application device before using. Dispose of cleaning solution in a responsible manner.
- **To Prevent Off-Site Movement Due to Runoff or Wind Erosion**
 - Avoid treating powdery dry or light sand soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.
 - **DO NOT** apply to impervious substrates such as paved or highly compacted surfaces.
 - **DO NOT** use tailwater from the first flood or furrow irrigation of treated fields to treat non-target crops unless at least one-half inch of rainfall has occurred between application and the first irrigation.

Restrictions

- Not for use in the states of Hawaii or Alaska, or in the U.S. territories (Puerto Rico, Guam, American Samoa, the U.S. Virgin Islands, and the North Mariana Islands).
- Use on roadside, Conservation Reserve Program (CRP) land, conifers, including Christmas Tree plantings, timber, forestry; and, Miscanthus and other perennial bioenergy crops is prohibited.
- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** apply under conditions which favor runoff or wind erosion of soil containing this product to non-target areas.
- Aerial applications are restricted to liquid formulations only.
- It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.
- Do not apply atrazine and propazine products to the same sorghum acre.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, this product contains Group 5 (atrazine) and Group 15 (metolachlor) herbicides. Any weed population may contain plants naturally resistant to Group 5 and/or Group 15 herbicides. The resistant individual may dominate the weed population if these herbicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

Weed Management

To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of this product or other Group 5 and Group 15 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in the field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout before and after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact ARCANA, LLC at 800-642-6795.

Management of Resistant Biotypes

Since the occurrence of resistant weeds cannot be determined until after product use and scientific confirmation, manufacturer is not responsible for any losses that may result from the failure of this product to control resistant weed biotypes.

The following good agronomic practices are recommended to reduce the spread of resistant biotypes:

- If a naturally occurring resistant biotype is present in your application site, this product should be tank-mixed or applied sequentially with an appropriately labeled herbicide with a different mode of action to achieve control.
- Cultural and mechanical control practices (e.g. crop rotation or tillage) may also be used as appropriate.
- Scout treated application site after herbicide applications and control escaping weeds including resistant biotypes before they set seed.
- Thoroughly clean equipment before leaving fields known to contain resistant biotypes.
- Contact your local sales representative, crop advisor, or extension agent to find out if suspected resistant weeds to these Mode of Actions have been found in your region. Do not assume that each listed weed is being controlled by multiple mechanisms of action. Co-formulated active ingredients are intended to broaden the spectrum of weeds that are controlled. Some weeds may be controlled by only one of the active ingredients in this product.

Integrated Pest (Weed) Management

This product may be integrated into an overall weed pest management strategy whenever the use of an herbicide is required. Practices known to reduce weed development (tillage, crop competition) and herbicide use (weed scouting, proper application timing, banding) should be followed wherever possible. Consult local agricultural and weed authorities for additional IPM strategies established for your area.

MIXING INSTRUCTIONS

Shake 2.5 gallon jugs well or thoroughly recirculate larger containers and bulk tanks before using. This product is a liquid that may be mixed with water or fluid fertilizer and applied as a spray. This product may also be sprayed onto dry bulk granular fertilizer and applied with the granular fertilizer.

Dry Bulk Granular Fertilizers

Many dry bulk granular fertilizers may be impregnated or coated with this product and used to control weeds in Corn. Impregnation of bulk fertilizer is restricted to commercial facilities. On-farm fertilizer impregnation is prohibited. Restrict the impregnation of dry bulk commercial fertilizer to 340 tons per worker per day for no more than 30 days per calendar year for use on corn, sorghum, and sod

Sorghum- Do not apply atrazine and propazine products to the same sorghum acre

Applications made by backpack-spray to landscape turf- Restrict backpack application to landscape turf to spot treatments only.

No single facility may impregnate fertilizer with this product for more than 30 days per calendar year. The commercial facility impregnating the dry bulk fertilizer must inform, in writing, the user (applicator) of the dry bulk fertilizer that: Applicators must wear long-sleeved shirt, long pants, shoes, and socks; and, the restricted-entry interval is 24 hours. When applying this product with dry bulk granular fertilizers, follow all directions for use and use precautions on this product label regarding target crops, rates per acre, soil texture, application methods, and rotational crops.

All individual state regulations relating to dry bulk granular fertilizer blending, registration, labeling, and application are the responsibility of the individual and/or company selling the herbicide/fertilizer mixture.

Prepare the herbicide/fertilizer mixture by using any closed drum, belt, ribbon, or other commonly used dry bulk fertilizer blender. Nozzles used to spray this product onto the fertilizer must be placed to provide uniform spray coverage.

Care should be taken to aim the spray onto the fertilizer only, avoiding the walls of the blender.

If the herbicide/fertilizer mixture is too wet, add a highly absorptive material, such as Agsorb® F.G. or Celatom MP-79®, or similar granular clay or diatomaceous earth materials, to obtain a dry, free-flowing

mixture. Absorptive materials should be added only after the herbicide has been thoroughly blended into the fertilizer mixture. Best application results will be obtained by using a granule of six/thirtieth particle size or a size similar to that of the fertilizer material being used. Generally, less than 2% by weight of absorptive material will be needed. Avoid using more than 5% absorptive material by weight.

Calculate the amount of this product to be used by the following:

$$\frac{2000}{\text{Pounds of Fertilizer per Acre}} \times \text{Quarts of this product per acre} = \text{Quarts of this product per ton of fertilizer}$$

Pneumatic (Compressed Air) Application

High humidity, high urea concentrations, low fertilizer use rates, and dusty fertilizer may cause fertilizer mixtures to build up or plug the distributor head, air tubes, or nozzle deflector plates. To minimize buildup, premix this product with Exxon Aromatic 200 at a rate of 2 to 2.5 pints per acre of this product. Aromatic 200 is a noncombustible/nonflammable petroleum product. Aromatic 200 may be used in either a fertilizer blender or through direct injection systems.

Drying agents should not be used when using Aromatic 200.

Notes: (1) Mixtures of this product and Aromatic 200 must be used on dry fertilizer only. Poor results or crop injury may result if these mixtures are used in water or liquid fertilizer solutions for spraying applications. (2) When impregnating this product in a blender before application, a drier mixture can be attained by substituting a drying agent for Aromatic 200. The use of Agsorb F.G. or another drying agent of six/thirtieth particle size is recommended. (3) Drying agents are not recommended for use with On-The-Go impregnation equipment.

Use Precautions: To avoid potential for explosion, (1) **DO NOT** impregnate this product on ammonium nitrate, potassium nitrate, or sodium nitrate, either alone or in blends with other fertilizers. (2) **DO NOT** combine this product with a single superphosphate (0-20-0) or treble superphosphate (0-46-0). (3) **DO NOT** use this product on straight limestone, since absorption will not be achieved. Fertilizer blends containing limestone can be impregnated.

Application

Apply 200 to 700 pounds of the herbicide/fertilizer mixture per acre. For best results, apply the mixture uniformly to the soil with properly calibrated equipment immediately after blending. Uniform application of the herbicide/fertilizer mixture is essential in order to prevent possible crop injury or injury to subsequent rotational crops. Non-uniform application may also result in unsatisfactory weed control. In areas where conventional tillage is practiced, a shallow incorporation of the mixture into the soil is recommended to obtain satisfactory weed control. On fine- or medium-textured soils in areas where soil incorporation is not planned, i.e., reduced tillage situations or in some conventional till situations, make applications approximately 30 days before planting to allow moisture to move the herbicide/ fertilizer mixture into the soil. On coarse-textured soils, make applications approximately 14 days prior to planting.

Use Restrictions: (1) To help avoid rotational crop injury, make applications as early as possible, since this product impregnated onto dry bulk granular fertilizers can be expected to last longer in the soil than when this product is applied as a spray in water or fluid fertilizer. (2) To avoid potential crop injury, **DO NOT** use the herbicide/fertilizer mixture on crops where planting beds are to be formed.

Application in Water or Fluid Fertilizers

This Product Alone: Fill the spray tank one-half to three-quarters full with water or fluid fertilizer, add the proper amount of this product, then add the rest of the water or fluid fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform suspension.

Tank Mixtures: This product may be tank mixed with the following herbicides provided the specific product tank mixed is registered for use on the sites listed on this label.

Fill the spray tank one-half to three-quarters full with water or fluid fertilizer, add the proper amount of this product then add Atrazine, Dicamba, Isoxaflutole, Linuron, or Simazine; next add Metolachlor/S-metolachlor; then add Paraquat, Glyphosate + 2,4-D or Glyphosate, depending on the tank mix combination desired; and finally, add the rest of the water or fluid fertilizer. Only water may be used with this product plus Glufosinate when applied postemergence to Corn designated as glufosinate-resistant; and with Glyphosate when applied postemergence to Corn designated as glyphosate-resistant. Provide sufficient agitation during mixing and application to maintain a uniform suspension.

Compatibility Test: A jar test is recommended before tank mixing to ensure compatibility of this product with other pesticides. The following test assumes a spray volume of 25 gallons per acre. For other spray volumes, make appropriate changes in the ingredients.

Note: Nitrogen solutions or complete fluid fertilizers may replace all or part of the water in the spray. Because liquid fertilizers vary, even within the same analysis, always check compatibility with pesticide(s) before use. Incompatibility of tank mixtures is more common with suspensions of fertilizer and pesticides.

Test Procedures

1. Add 1 pint of carrier (fertilizer or water) to each of 2 one-quart jars with tight lids. Note: Use the same source of water that will be used for the tank mix and conduct the test at the temperature the tank mix will be applied.
2. To one of the jars, add 0.25 teaspoon or 1.2 milliliters of a compatibility agent approved for this use, such as [Compex®, MIX™ or other product name] (0.25 teaspoon is equivalent to 2 pints per 100 gallons spray). Shake or stir gently to mix.
3. To both jars, add the appropriate amount of pesticide(s) in their relative proportions based on specified label rates. If more than one pesticide is used, add them separately with dry pesticides first, flowables next, and emulsifiable concentrates last. After each addition, shake or stir gently to thoroughly mix.
4. After adding all ingredients, put lids on and tighten, and invert each jar 10 times to mix. Let the mixtures stand 15 to 30 minutes and then look for separation, large flakes, precipitates, gels, heavy oily film on the jar, or other signs of incompatibility. Determine if the compatibility agent is needed in the spray mixture by comparing the 2 jars. If either mixture separates, but can be remixed readily, the mixture can be sprayed as long as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility: (A) slurry the dry pesticide(s) in water before addition, or (B) add one-half of the compatibility agent to the fertilizer or water and the other one-half to the emulsifiable concentrate or flowable pesticide before addition to the mixture. If incompatibility is observed, **DO NOT** use the mixture.
5. After compatibility testing is complete, dispose of any pesticide wastes in accordance with the directions in the Storage and Disposal section at the end of this label.

Soil Texture Information

COARSE	Sand, Loamy sand, Sandy loam
MEDIUM	Loam, Silt loam, Silt
FINE	Sandy clay loam, Silty clay loam, Clay loam, Sandy clay, Silty clay, Clay

Application Procedures

Ground Application: Use sprayers that provide accurate and uniform application. Screens in nozzles and in suction and in-line strainers should be no finer than 50-mesh. Use a pump with capacity to: (1) maintain 35 to 40 psi at the nozzles, and (2) provide sufficient agitation in tank to keep mixture in suspension. Unless otherwise specified, use a minimum of 10 gallons of spray mixture per acre. Rinse sprayer thoroughly with clean water immediately after use.

For band applications, calculate amount to be applied per acre as follows:

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast rate per acre} = \text{Amount needed per acre of field}$$

Low Carrier Application (Broadcast Ground Application Only): Use sprayers, such as Ag-Chem RoGator®, Hagie, John Deere Hi-Cycle™, John Deere 4700 Sprayer, Melroe Spra-Coupe, Tyler Patriot™, or Willmar Air Ride®, that provide accurate and uniform application. Only water may be used as a carrier. Screens in suction and in-line strainers should be 50-mesh. Manufacturers may require that tip screens as fine as 100-mesh be used with some nozzles. Use a pump with capacity to: (1) maintain up to 35 to 40 psi at the nozzles, and (2) provide sufficient agitation in tank to keep mixture in suspension. Use a minimum of 5 gallons of spray mixture per acre. Maximum recommended sprayer speed is 15 mph. Maintain uniform travel speed while spraying. Rinse sprayer thoroughly with clean water immediately after each use.

Note: Low pressure nozzles are recommended to reduce drift and increase application accuracy. Care should be taken when using automatic rate-controlling devices to spray the material within the rated working pressure and flow ranges of the nozzle selected. Nozzle screens should be used when recommended by the manufacturer. All nozzles should be placed on 20-inch centers, except flooding types which should be placed on 40-inch centers. When Flat Fan-type nozzles are used, angles of 80° or 110° are recommended. Always read and follow the manufacturer's directions for optimum setup and performance of their nozzles or tips.

Aerial Application (for This Product Alone): Use aerial application only where broadcast applications are specified. Apply a minimum of 1 gallon of water for each 1 gallon of this product applied per acre, but for rates below 1 gallon per acre, use in sufficient water to equal 2 gallons per acre of total spray. Avoid applications under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur. In order to assure that spray will be controllable within the target area when used according to label directions, make applications at a maximum height of 10 feet, using low-drift nozzles at a maximum pressure of 40 psi, and restrict application to periods when wind speed does not exceed 10 mph. To assure that spray will not adversely affect adjacent sensitive non-target plants, apply this product by aircraft at a minimum upwind distance of 400 feet from sensitive plants. Avoid application to humans or animals. Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin.

MANDATORY SPRAY DRIFT MANAGEMENT

Aerial Applications:

- Do not release spray at a height greater than 10 ft above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to use a coarse or coarser droplet size (ASABE S572).
- User must maintain a 150 foot (46 m) in-field downwind buffer (in the direction in which the wind is blowing) from the following areas edge of streams and rivers, as well as high-tide line for all estuarine/marine environments
- If the wind speed is 10 miles per hour or less, applicators must use 1/2 swath displacement upwind at the downwind edge of the field. When the wind speed is between 11-15 miles per hour, applicators must use 3/4 swath displacement upwind at the downwind edge of the field.
- Do not apply when wind speeds exceed 15 mph at the application site. If the wind speed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- Do not apply during temperature inversions.

Ground Boom Applications:

- User must only apply with the release height recommended by manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to use a coarse or coarser droplet size (ASABE S572).
- **DO NOT** apply when wind speeds exceed 10 miles per hour at the application site.
- User must maintain a 15 foot (4.6 m) in-field downwind buffer (in the direction in which the wind is blowing from the following areas edge of streams and rivers, as well as high-tide line for all estuarine/marine environments
- **DO NOT** apply during temperature inversions.

- User must only apply with the release height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to use a coarse or coarser droplet size (ASABE S572).
- **DO NOT** apply when wind speeds exceed 15 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

Boomless Ground Applications:

- Applicators are required to use a coarse or coarser droplet size (ASABE S572) for all applications.
- **DO NOT** apply when wind speeds exceed 10 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.
- User must maintain a 15 foot (4.6 meter) in-field downwind buffer (in the direction in which the wind is blowing) from the edge of streams and rivers, as well as high-tide line for all estuarine/marine environments.”

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size – Ground Boom

- **Volume** - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- **Pressure** - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- **Spray Nozzle** - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size – Aircraft

- **Adjust Nozzles** - Follow nozzle manufacturers’ recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

Boomless Ground Applications:

Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

Handheld Technology Applications

Take precautions to minimize spray drift.

BOOM HEIGHT – Ground Boom

For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT – Aircraft

Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

THIS PRODUCT APPLIED ALONE — CORN (FIELD, POP, SWEET)

Early Preplant, Preplant Surface-Applied, Preplant Incorporated, or Preemergence

Weeds Controlled		Weeds Partially Controlled**
Barnyardgrass (watergrass)	Henbit	Sandbur
Browntop panicum	Jimsonweed	Seedling johnsongrass
Carpetweed	Lambsquarters	Shattercane
Chickweed	Morningglory	Sicklepod
Cocklebur*	Mustards	Volunteer Sorghum
Common purslane	Nightshades	Woolly cupgrass
Common ragweed	Pigweed	
Crabgrass	Prairie cupgrass	
Crowfootgrass	Red rice	
Fall panicum	Signalgrass (<i>Brachiaria</i>)*	
Florida pusley	Smartweed	
Foxtail millet	Southwestern cupgrass	
Galinsoga	Velvetleaf*	
Giant foxtail	Waterhemp	
Giant ragweed*	Witchgrass	
Goosegrass	Yellow foxtail	
Green foxtail	Yellow nutsedge*	

*Control of these weeds can be erratic, especially under dry weather conditions. Control escaped weeds with cultivation or application of an appropriate EPA-registered post-emergence herbicide. On fine textured soils, only partial control can be expected.

**Control may be improved by following these procedures:

1. Apply up to the maximum single application rate in Table 1 for your given soil texture and rate limitation based on your soil conservation practices.
2. Thoroughly till moist soil to destroy germinating and emerged weeds. If this product is to be applied pre-plant incorporated, this tillage may be used to incorporate this product if uniform 2 inch incorporation is achieved as directed under "APPLICATION PROCEDURES".
3. Plant crop into moist soil immediately after tillage. If this product is to be used pre-emergence, apply at planting or immediately after planting.
4. If available, sprinkler irrigate within 2 days after application. Apply one-half to 1 inch of water. Use lower water volume (one-half inch) on coarse textured soils and higher volume (1 inch) on fine textured soils.
5. If irrigation is not possible and rain does not occur within 2 days after planting and application, weed control may be decreased.

Under these conditions, a uniform, shallow cultivation is recommended as soon as weeds emerge.

Application and Seasonal Rate Limitations for Atrazine and Metolachlor

When tank-mixing or sequentially applying atrazine and/or simazine or products containing atrazine and/or simazine to corn or sorghum, **DO NOT** exceed a combined application rate of 2.0 pounds combined active ingredient per acre for any single application, and the total pounds of atrazine and/or simazine applied (pounds per acre) must not exceed 2.5 pounds combined active ingredient per year.

Where there are state/local requirements regarding atrazine use (including lower maximum rates and/or greater setbacks) which are different from the label, the more restrictive/protective requirements must be followed.

Certain states may have established rate limitations within specific geographical areas. Consult your state lead pesticide control agency for additional information. It is a violation of this label to deviate from state use regulations.

For metolachlor/S-metolachlor, **DO NOT** exceed a maximum seasonal application rate of 3.0 pounds ai metolachlor/S-metolachlor per acre, per year from ARC-METOLAZINE HERBICIDE, and all tank mixes containing metolachlor or S-metolachlor.

Note: For purposes of calculating total atrazine active ingredient applied, this product contains 3.1 pounds of the active ingredient Atrazine per gallon (0.775 lb ai per quart. The amount of metolachlor/S-metolachlor active ingredient in this product is 2.4 lb ai per gallon (0.6 lb ai per quart).

FOR ALL SOIL APPLICATIONS PRIOR TO CROP EMERGENCE

- **On Highly Erodible Land (as defined by the Natural Resource Conservation Service)** If conservation tillage is practiced, leaving at least 30% of the soil covered with plant residues at planting, apply a maximum of 2.5 quarts (1.9 lb ai atrazine and 1.5 lb ai metolachlor) of this product per acre as a single broadcast spray. Refer to “B” in tables following. If the soil coverage with plant residue is less than 30% at planting, a maximum of 2.0 quarts (1.6 lb ai atrazine and 1.2 lb ai metolachlor) of this product per acre may be applied as a single pre-emergence application. Refer to “A” in tables following.
- **On Land Not Highly Erodible** Apply a maximum of 2.5 quarts (1.9 lb ai atrazine and 1.5 lb ai metolachlor) of this product per acre as a single broadcast spray. Refer to “B” in tables following.

FOR POSTEMERGENCE APPLICATION

If no atrazine was applied prior to Corn emergence, apply a maximum of 2.5 quarts of this product /A broadcast. If a postemergence treatment is required following an earlier herbicide application, the total atrazine applied may not exceed 2.5 pounds of the active ingredient atrazine per acre per calendar year.

Application Timings and Procedures

Early Preplant: Use on medium- and fine-textured soils with minimum-tillage or no-tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI, and WY. Apply two-thirds the specified rate of this product as a split treatment 30 to 45 days before planting and the remainder at planting, using the rates in Table 1. Applications made less than 30 days prior to planting may be as either a split or single treatment. Use the lower rate for light expected weed infestations and the higher rate for heavy expected weed infestations. On coarse-textured soils, apply 2.0 quarts (1.6 lb ai atrazine and 1.2 lb ai metolachlor) of this product per acre not more than 2 weeks prior to planting. The above procedure may be followed if Atrazine, Metolachlor, or Simazine is used in tank mixtures with this product. Tank mixtures with isoxaflutole may be applied up to 14 days before planting field Corn. Substitute a fluid fertilizer for some or all of the water carrier for burndown of existing annual weeds listed on this label up to the 2-leaf stage of development. The addition of crop oil concentrate to the spray mixture will enhance the burndown activity. If larger weeds are present at the time of treatment, apply in a tank-mixture combination with a contact herbicide (for example, glyphosate or paraquat). It is the pesticide user’s responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. Observe directions for use, use restrictions, and restrictions on the label of the contact herbicide.

On medium and fine textured soils with minimum or no-tillage systems in DE, MD, MI, NY, OH, PA, VA, and WV, early preplant applications may be applied following the directions for use above. If the amount of rainfall results in unsatisfactory length of weed control following the earlier treatment, a postemergence application of an appropriately labeled broadleaf and/or grass weed herbicide may be used, i.e., atrazine, atrazine + dicamba, bentazon, bromoxynil, dicamba, primisulfuron, primisulfuron + prosulfuron, or 2,4-D. If the postemergence treatment includes the herbicide used early preplant, **DO NOT** exceed the labeled rate for Corn on a given soil texture. It is the pesticide user’s responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

This product may be used according to the above directions to control Winter Wheat planted as a cover crop in IN, KY, and OH, in addition to providing residual weed control. The Wheat must be less than 6 inches tall (preferably still in a dormant or semi-dormant state coming out of Winter) at the time of

application. Depending on rainfall, 10 to 20 days may be required to completely kill the Wheat. In the event that adequate rainfall does not occur, control of the Winter Wheat may be unsatisfactory and the application of a contact herbicide such as glyphosate or paraquat may be required before planting the crop.

This product may be applied in the Fall, as a single application, for control of the Winter weeds listed on this label within the eco-fallow (no-till) production areas of NE and KS, where Wheat (or other small grain cereals) will be rotated to Corn. The application must be made to untilled Wheat stubble in the Fall following Wheat harvest, but before soil freeze-up. The ground must remain untilled through the establishment of the Corn crop. Fall application should not be applied to frozen ground, and this is restricted to IA, MN, ND, SD, WI and portions of NE and IL.

On medium and fine textured soils following final seedbed preparation in the Blacklands and Gulf Coast areas of TX, an early preplant application of this product at 1.6 to 1.9 quarts (1.2 to 1.5 lb ai atrazine and 1.0 to 1.1 lb ai metolachlor) per acre may be made 30 to 45 days before planting. Grass suppression of 2 to 3 weeks after planting can be expected as a result of this application. **DO NOT** incorporate or disturb the soil before planting, and avoid moving the soil during the planting operation. A follow-up application of Metolachlor may be needed in fields with a history of heavy grass pressure. Apply after planting, but before Corn and grass weeds emerge.

RESTRICTIONS

- (1) If a follow-up application of Metolachlor is needed, **DO NOT** exceed a total of 1.6 pounds of Metolachlor per acre, including the preplant application of this product on medium- or fine-textured soils. On fine-textured soils with more than 3% organic matter, **DO NOT** exceed 1.9 pounds of Metolachlor. To determine the total pounds of Metolachlor per acre, use the following 2-step method:
 - A. Determine the pounds of Metolachlor applied as this product (1 quart = 0.6 pound of metolachlor); then,
 - B. If a tank mix partner containing metolachlor or S-metolachlor will be used, add the pounds of active ingredient in tank mix partners to the pounds in Step A above. The sum shall not exceed 1.6 pounds metolachlor and S-metolachlor on medium or fine-textured soils containing up to 3% organic matter, or 1.9 pounds metolachlor and S-metolachlor on fine-textured soils containing more than 3% organic matter.
- (2) To the extent possible, **DO NOT** move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished.
- (3) These limitations apply to ARC-METOLAZINE HERBICIDE plus all tank mix partners containing metolachlor or S-metolachlor.

Table 1: This Product – Early Preplant Application

Soil Texture***	Single Application of this product (Quarts per Acre)	Split Application of This Product* (Quarts per Acre)	
		30 to 45 DBP**	At Planting
COARSE Sand, Loamy sand, Sandy loam	2.0 (1.6 lb ai atrazine and 1.2 lb ai metolachlor)	DO NOT APPLY	
MEDIUM Loam, Silt loam, Silt	A. 2.0 (1.6 lb ai atrazine and 1.2 lb ai metolachlor)	1.4 (1.1 lb ai atrazine and 0.8 lb ai metolachlor)	0.6 (0.5 lb ai atrazine and 0.4 lb ai metolachlor)
	B. 2.0 to 2.5 (1.6 to 1.9 lb ai atrazine and 1.2 to 1.5 lb ai metolachlor)	1.4 to 1.7 (1.1 to 1.3 lb ai atrazine and 0.8 to 1.0 lb ai metolachlor)	0.6 to 0.8 (0.5 to 0.6 lb ai atrazine and 0.4 to 0.5 lb ai metolachlor)
FINE	A. 2.0	1.4	0.6

Sandy clay loam, Silty clay loam, Clay loam, Silty clay, Sandy clay, Clay	(1.6 lb ai atrazine and 1.2 lb ai metolachlor)	(1.1 lb ai atrazine and 0.8 lb ai metolachlor)	(0.5 lb ai atrazine and 0.4 lb ai metolachlor)
	B. 2.5 (1.9 lb ai atrazine and 1.5 lb ai metolachlor)	1.7 (1.3 lb ai atrazine and 1.0 lb ai metolachlor)	0.8 (0.6 lb ai atrazine and 0.5 lb ai metolachlor)
<p>* Split applications can be made less than 30 days before planting ** DBP - Days before planting. *** DO NOT use on peat or muck soils. A. DO NOT exceed this rate on highly erodible land with less than 30% plant residue cover. Control of certain weeds may be reduced and a tank-mix partner or an application of a postemergence herbicide may be needed. B. Use these rates for all other applications.</p>			

Use Restrictions: DO NOT graze or feed forage from treated areas for 60 days following application.

Preplant Surface, Preplant Incorporated, or Preemergence: Apply this product preplant surface, preplant incorporated, or preemergence, using the appropriate rates from Table 2.

Preplant Surface: Apply uniformly to the soil surface within 14 days before planting. Where applications are made to coarse soils more than 7 days before planting, use the rates in Table 1.

Preplant Incorporated: Apply to the soil and incorporate into the top 2 inches of the soil within 14 days before planting, using a finishing disk, finishing harrow, rolling cultivator, or similar implement capable of providing uniform 2-inch incorporation. Use the preplant incorporated method if furrow irrigation is used or when a period of dry weather after application is expected. If crop is to be planted on beds, apply and incorporate after bed formation.

Preemergence: Apply to the soil surface at planting (behind the planter) or after planting, but before weeds or crop emerge.

Table 2: This Product - Preplant Surface, Preplant Incorporated, or Preemergence Application

Soil Texture	Broadcast Rate of This Product (Quarts per Acre)	
	Less Than 3% Organic Matter	3% Organic Matter or Greater
COARSE Sand, Loamy sand, Sandy loam	1.3 (1.0 lb ai atrazine and 0.8 lb ai metolachlor)	1.6 (1.2 lb ai atrazine and 1.0 lb ai metolachlor)
MEDIUM Loam, Silt loam, Silt	1.6 (1.2 lb ai atrazine and 1.0 lb ai metolachlor)	2.0 (1.6 lb ai atrazine and 1.2 lb ai metolachlor)
FINE Sandy clay loam, Silty clay loam, Clay loam, Silty clay, Sandy clay, Clay	2.0 (1.6 lb ai atrazine and 1.2 lb ai metolachlor)	A. 2.0 (1.6 lb ai atrazine and 1.2 lb ai metolachlor)
		B. 2.0 to 2.5 * (1.6 to 1.9 lb ai atrazine and 1.2 to 1.5 lb ai metolachlor)
Muck or peat soils (more than 20% organic matter)	DO NOT USE	
<p>* For Cocklebur, Yellow nutsedge, and Velvetleaf control on fine-textured soils above 3% organic matter: Apply 2.5 quarts (1.9 lb ai atrazine and 1.5 lb ai metolachlor) of this product per acre. A. DO NOT exceed this rate on highly erodible land with less than 30% plant residue cover. Control of certain weeds may be reduced and a tank-mix partner or an application of a postemergence herbicide may be needed. B. Use this rate for all other applications.</p>		

Restrictions: (1) In the event of escape of annual weeds following an early preplant, preplant surface, preplant incorporated, or preemergence treatment of this product applied alone or in combination, follow with a postemergence application of an appropriately labeled broadleaf and/or grass weed herbicide, i.e., atrazine, atrazine + dicamba, bentazon, bromoxynil, dicamba, nicosulfuron, rimsulfuron, primisulfuron + prosulfuron or 2,4-D. If the postemergence treatment includes the herbicide used in the earlier treatment, **DO NOT** exceed the labeled rate for Corn on a given soil texture. (2) Bromoxynil may be applied postemergence alone or in tank mix combination with atrazine. **DO NOT** exceed 1.2 pounds of the active ingredient atrazine per acre in tank mix combination with bromoxynil postemergence. Refer to the atrazine, bromoxynil labels for specific rates and precautions. (3) If atrazine or another product containing atrazine or simazine is used postemergence following application of this product **DO NOT** exceed a total of 2.5 pounds of atrazine ai per acre per year. (4) Substitute a fluid fertilizer for some or all of the water carrier for burndown of existing annual weeds listed on this label up to the 2-leaf stage of development. The addition of crop oil concentrate to the spray mixture will enhance the burndown activity. If larger weeds are present, add a contact herbicide as noted in the This Product Combinations section of this label.

Use Restrictions: DO NOT graze or feed forage from treated areas for 60 days following application.

Rotational Crops

DO NOT rotate to food or feed crops other than those listed below:

1. If treated crop is lost due to poor germination, hail, flood, insects, etc., Corn may be replanted immediately or Sorghum may be replanted immediately, provided the seed has been properly treated with Concep III. **DO NOT** make a second broadcast application. If the original application was banded and the second crop is planted in the untreated row middles, a second banded treatment may be applied.
2. Corn, Sorghum, Soybeans, Cotton, or Peanuts may be planted the Spring following treatment. **DO NOT** graze or feed forage or fodder from Cotton to livestock, or illegal residues may result.
3. Injury may occur to Soybeans planted the year following application on soils having a calcareous surface layer.
4. In Eastern parts of the Dakotas, KS, Western MN, and NE, **DO NOT** rotate to Soybeans for 18 months following application if the rate applied to Corn or Sorghum was more than 2 pounds of atrazine or equivalent band application rate, or Soybean injury may occur.
5. If applied after June 10, **DO NOT** rotate with crops other than Corn or Sorghum the next year, or crop injury may occur.
6. In the High Plains and Intermountain areas of the West, where rainfall is sparse and erratic or where irrigation is required, use only when Corn or Sorghum is to follow Corn or Sorghum, or a crop of untreated Corn or Sorghum is to precede other rotational crops.
7. **DO NOT** plant Sugar beets, Tobacco, vegetables (including Dry beans), Spring-seeded small grains, or small-seeded Legumes the year following application or injury may occur.

Postemergence Broadcast Application

Weeds Controlled		Weeds Partially Controlled
Barnyardgrass (Watergrass)	Lambsquarters	Yellow nutsedge
Cocklebur	Morningglory	
Common ragweed	Mustard	
Crabgrass	Pigweed	
Crowfootgrass	Prickly sida	
Fall panicum	Purslane	
Flixweed	Smartweed	
Giant foxtail	Velvetleaf	
Green foxtail	Waterhemp	
Jimsonweed	Yellow foxtail	
Kochia		

Application: Apply early postemergence, using the appropriate rate from Table 3. Apply this treatment before grass and broadleaf weeds pass the 2-leaf stage and before Corn reaches 12 inches in height. Application to weeds larger than the 2-leaf stage will generally result in unsatisfactory control. Occasional

Corn leaf burn may result, but this should not affect later growth or yield. **DO NOT** apply postemergence in fluid fertilizer, or severe crop injury may occur.

Table 3: Postemergence Broadcast Application

Soil Texture	Broadcast Rate of This Product (Quarts per Acre)
COARSE Sand, Loamy sand, Sandy loam	1.6 (1.2 lb ai atrazine and 1.0 lb ai metolachlor)
MEDIUM Loam, Silt loam, Silt	2.0 (1.6 lb ai atrazine and 1.2 lb ai metolachlor)
FINE Sandy clay loam, Silty clay loam, Clay loam, Silty clay, Sandy clay, Clay	2.0 to 2.5 * (1.6 to 1.9 lb ai atrazine and 1.2 to 1.5 lb ai metolachlor)
* For better residual control of Cocklebur, Velvetleaf, and Yellow nutsedge on fine- textured soils above 3% organic matter, apply 2.5 quarts (1.9 lb ai atrazine and 1.5 lb ai metolachlor) of this product per acre.	

Restrictions: (1) If this product has been applied early preplant, preplant surface, preplant incorporated, or preemergence, **DO NOT** exceed an application rate of 2 pounds atrazine active ingredient of atrazine for any single application, and the total pounds of atrazine (lb a.i. per A) must not exceed 2.5 pounds of atrazine active ingredient per acre per year. (2) If Atrazine or Atrazine plus Metolachlor tank mixtures have been applied early preplant, preplant surface, preplant incorporated, or preemergence, limit this product early post application not to exceed a total of 2.5 pounds of atrazine active ingredient or 3.75 pounds. of the active ingredient in Metolachlor products or its component in this product per acre on a Corn crop, or illegal residues may result.

Use Restrictions: To avoid possible illegal residues, **DO NOT** graze or feed forage from treated areas for 60 days following application. **DO NOT** use on peat or muck soils.

Rotational Crops: Follow the preceding crop rotation instructions for **This Product - Early Preplant, Preplant Surface-Applied, Preplant Incorporated, or Preemergence.**

Postemergence-Directed Application

This product may be applied at 1.3 to 2.5 quarts (1.0 to 1.9 lb ai atrazine and 0.8 to 1.5 lb ai metolachlor) per acre in a minimum of 15 gallons of water as a postemergence directed treatment to extend control of weeds listed in the Early Preplant, Preplant Surface-Applied, Preplant Incorporated, Pre-emergence, or Postemergence Broadcast section. Apply using the appropriate rate from Table 4.

For best results, apply this product to weed-free soil following use of a preplant surface, preplant incorporated, or preemergence herbicide, or following a lay-by cultivation. If weeds have emerged at the time of this product application, apply before grass and broadleaf weeds exceed the 2-leaf stage. Application to weeds larger than the 2-leaf stage will generally give unsatisfactory control. Apply to Corn not exceeding 12 inches in height. Minimize contact with Corn leaves. **DO NOT** apply postemergence in fluid fertilizer, or severe crop injury may occur.

Table 4: Postemergence Directed Application

Soil Texture	Broadcast Rate of This Product (Quarts per Acre)
COARSE Sand, Loamy sand, Sandy loam	1.3 (1.2 lb ai atrazine and 1.0 lb ai metolachlor)
MEDIUM	2.0

Loam, Silt loam, Silt	(1.6 lb ai atrazine and 1.2 lb ai metolachlor)
FINE Sandy clay loam, Silty clay loam, Clay loam, Silty clay, Sandy clay, Clay	2.0 to 2.5* (1.6 to 1.9 lb ai atrazine and 1.2 to 1.5 lb ai metolachlor)
* For better residual control of Cocklebur, Velvetleaf, and Yellow nutsedge on fine- textured soils above 3% organic matter, apply 2.5 quarts (1.9 lb ai atrazine and 1.5 lb ai metolachlor) of this product per acre.	

Restrictions: (1) If this product has been applied early preplant, preplant surface, preplant incorporated, or preemergence, **DO NOT** exceed an application rate of 2.0 pounds of Atrazine active ingredient for any single application, and the total pounds of Atrazine applied (lb a.i. per acre) must not exceed 2.5 pounds of Atrazine active ingredient per acre per year. (2) If Atrazine or Atrazine plus Metolachlor tank mixtures have been applied preplant surface, preplant incorporated, or preemergence, limit the post-directed application of this product not to exceed a total of 2.5 pounds of Atrazine active ingredient or 3.75 pounds of the active ingredient in Metolachlor product or its component in this product per acre on a Corn crop, or illegal residues may result.

THIS PRODUCT IN TANK MIXTURE*

Always follow label instructions for tank-mix products when mixing with this product. **DO NOT** graze or feed forage from treated areas for 30 days following application.

*When tank-mixing this product with Atrazine formulations, refer to **Application and Seasonal Rate Limitations for Atrazine and Metolachlor** section of this label. **DO NOT** exceed the following:

On highly erodible land with less than 30% plant residue cover prior to crop emergence	1.6 lb of atrazine a.i.
On other land prior to crop emergence	2.0 lb of atrazine
Postemergence applications only - any land	2.0 lb of atrazine
Preemergence + postemergence applications	2.5 lb of atrazine

When tank-mixing or sequentially applying atrazine and/or simazine or products containing atrazine and/or simazine to corn or sorghum, **DO NOT** exceed a combined application rate of 2.0 pounds combined active ingredient per acre for any single application, and the total pounds of atrazine and/or simazine applied (pounds per acre) must not exceed 2.5 pounds combined active ingredient per year.

Tank Mixture with Atrazine, Metolachlor, Simazine or Isoxaflutole — Conventional Tillage

Note: Check the compatibility of this product tank mixtures with isoxaflutole before mixing in spray tank by using the procedure described under **Application in Water or Fluid Fertilizers**.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Atrazine: Add the labeled rate of atrazine to the rate of this product referenced in Table 2 (**DO NOT** exceed the above atrazine limit) in the southeastern U.S. where high rainfall can shorten the duration of control of broad leaf weeds, and in all areas where heavy infestations of cocklebur, morningglory, velvetleaf, or other broadleaf weeds claimed are expected.

Metolachlor/S-metolachlor: Add the labeled rate of Metolachlor/S-metolachlor to the rate of this product specified in Table 2 when heavy infestations of Yellow nutsedge, Sandbur, or seedling Johnsongrass are expected.

Simazine: Add the labeled rate of simazine to the rate of this product referenced in Table 2 where heavy infestations of Crabgrass or Fall panicum are expected or additional control of certain broadleaves is desired.

Isoxaflutole - Field Corn Only: The tank mixture of this product plus Isoxaflutole provides control of weeds listed on this product's label, certain weed biotypes resistant to ALS-inhibitor herbicides and to triazine herbicides, Velvetleaf, and others on the respective product labels. Isoxaflutole will contribute to the control of problem grass and other broadleaf species on its label.

Application may be pre-plant (surface applied up to 14 days before to planting), pre-plant incorporated or preemergence in conventional tillage, conservation tillage, and no-till systems. **Refer to Table 1: This Product - Early Pre-Plant Application** for the early pre-plant application rate (8 to 14 days before planting) or refer to Table 3 for the appropriate rate for pre-plant (surface applied 0 to 7 days before planting), pre-plant incorporated or pre-emergence application.

Where difficult species and/or severe weed populations are expected, use the maximum rates of this product and Isoxaflutole where rate ranges are listed for this tank mixture.

Tank Mixture of This Product Alone or This Product + Atrazine, Isoxaflutole, Metolachlor/S-metolachlor, or Simazine with Paraquat, Glyphosate + 2,4-D or Glyphosate for Minimum-Tillage or No-Tillage Systems

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

In minimum-tillage or no-tillage systems where Corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides Paraquat, Glyphosate + 2,4-D or Glyphosate should be tank mixed with this product alone or with this product plus Atrazine, Isoxaflutole, Metolachlor/S-metolachlor, or Simazine. When used as directed, the Paraquat portion of the tank mixture controls most emerged annual weeds and suppresses many perennial weeds. Glyphosate + 2,4-D or Glyphosate combinations will control emerged annual and perennial weeds when applied as directed on its label. The tank mixture portion of this product provides preemergence control of the weeds listed on this label in **This Product Alone** section. The addition of Atrazine Isoxaflutole, Metolachlor/S-metolachlor, or Simazine offers the advantage indicated for each under **Tank Mixture with Atrazine, Metolachlor, Simazine, or Isoxaflutole – Conventional Tillage** section.

Application: Apply this product before, during, or after planting, but before corn emerges, at the appropriate rate in Table 5. The labeled rate of atrazine, metolachlor/S-metolachlor, simazine or isoxaflutole may be added to the rate of this product recommended in Table 5. Add glyphosate or paraquat at labeled rates. Tank mixes with Isoxaflutole must only be used on field corn.

Apply in 20 to 60 gallons of water per acre with conventional spray equipment.

Tank Mixture of This Product Alone or This Product + Atrazine, or Isoxaflutole, with 2,4-D or 2,4-D + Dicamba for Minimum-Tillage or No-Tillage Systems

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

In minimum-tillage or no-tillage systems where Corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, this product may be applied in combination with Atrazine or Isoxaflutole. When used as directed, the tank mixture portion of this product provides preemergence control of the weeds listed on this label in the **This Product Alone** section. The addition of Atrazine or Isoxaflutole offers the advantage indicated for each under **Tank Mixture with Atrazine, Metolachlor, Simazine, or Isoxaflutole – Conventional Tillage** section.

Application: Apply before, during, or after planting, but before corn emerges, at the appropriate rate in Table 5. The labeled rate of atrazine, metolachlor/S-metolachlor, simazine or isoxaflutole may be added to the rate of this product recommended in Table 5. Add glyphosate or paraquat at labeled rates. Tank mixes with Isoxaflutole must only be used on field corn.

Where heavy crop residues exist, add an appropriately labeled 2,4-D amine or low volatile ester to the spray tank last and apply in a minimum of 25 gallons of carrier per acre.

As carriers, nitrogen solutions and complete liquid fertilizers, applied before corn emergence, enhance burndown of existing weeds, and therefore are recommended instead of water. Add a surfactant at 1 to 2 quarts per 100 gallons of diluted spray, or another surfactant cleared for use on growing crops at its specified rate. Apply before weeds exceed 3 inches in height. If Alfalfa is present, add dicamba to the spray mixture at the labeled rate and apply before Alfalfa exceeds 6 inches in height.

For fields with existing sod grasses (e.g., Bromegrass, Orchardgrass, Rye, or Timothy), when existing weeds exceed 3 inches in height or when very dry conditions exist, add Paraquat at the label specified rate in place of, or in addition to, 2,4-D, as indicated above **DO NOT** apply Paraquat in suspension-type liquid fertilizer. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Note: DO NOT exceed a total of 2.5 lb of atrazine active ingredient per acre per calendar year.

Table 5: This Product for Minimum Tillage or No Tillage Application

Soil Texture	Broadcast Rate of This Product (Quarts per Acre)
COARSE Sand, Loamy sand, Sandy loam	1.6 (1.2 lb ai atrazine and 1.0 lb ai metolachlor)
MEDIUM Loam, Silt loam, Silt	2.0 (1.6 lb ai atrazine and 1.2 lb ai metolachlor)
FINE Sandy clay loam, Silty clay loam, Clay loam, Silty clay, Sandy clay, Clay	A. 2.0 (1.6 lb ai atrazine and 1.2 lb ai metolachlor)
	B. 2.0 to 2.5 * (1.6 to 1.9 lb ai atrazine and 1.2 to 1.5 lb ai metolachlor)
Muck or peat soils	DO NOT USE
* For Cocklebur, Yellow nutsedge, and Velvetleaf control on fine-textured soils above 3% organic matter, apply 2.5 quarts (1.9 lb ai atrazine and 1.5 lb ai metolachlor) of this product per acre. A. DO NOT exceed this rate on highly erodible land with less than 30% plant residue cover. Control of certain weeds may be reduced and a tank mix partner or an application of a postemergence herbicide may be needed. B. Use this rate for all other applications.	

Tank Mixture with Linuron for Control of Lambsquarters and Pigweed

For prolonged control of Lambsquarters and Pigweed in DE, MD, NJ, NY, PA, VA, and WV, this product may be applied preemergence in combination with Linuron. Apply this product according to the rates in Table 2 and Linuron according to the following rates:

Soil Texture	Broadcast Rate Per Acre
Sandy loam (1 to 3% organic matter)	0.67 lb. Linuron*
Sandy loam (3 to 6% organic matter)	1.0 lb. Linuron*
Medium- and fine-textured soils (1 to 6% organic matter)	1.0 lb. Linuron*
* When using Linuron 4L or Linuron DF, use equivalent rates. One pint of Linuron 4L equals 1 pound of Linuron DF.	

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Rotational Crops: Follow the crop rotation instructions in the section – **This Product Alone.**

Tank Mixture with Mesotrione - For Use in Field Corn, Production Seed Field Corn, Field Corn Grown for Silage, Yellow Popcorn and Sweet Corn. For preemergence control of weeds in Corn, this product may be applied in combination with mesotrione. Apply this product according to the rates in Table 2 of This product label and mesotrione label specified rates.

Observe all directions for use, use precautions, and limitations on the respective product labels when applying these products in tank mix combination. Observe the most restrictive directions for use, use precautions, and restrictions on the labels for the two products involved in this tank mix.

TANK MIXTURE FOR POSTEMERGENCE SALVAGE WEED CONTROL IN FIELD CORN ONLY

For postemergence control of weeds in specific types of field corn, the combinations listed below with this product may be used. Full season weed control from early preplant, preplant incorporated, or preemergence treatments can lead to maximum yield potential under competition-free conditions. However, if control of emerged weeds is needed, a postemergence program as listed below can be used to provide residual control for the remainder of the season.

Notes: (1) It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. (2) **DO NOT** use fluid fertilizer with these mixtures or Corn injury may occur. (3) For each tank mixture with this product, apply only to the specific field Corn type specified on the tank mix product label. (4) In-row weed control may be reduced because of lack of coverage when applied to Corn over 4 inches tall. (5) Postemergence applications to Corn must be made before crop reaches 12 inches in height.

A. This Product + Glufosinate: Postemergence Use in Glufosinate Resistant Corn– The tank mixture of this product + Glufosinate can be applied postemergence to weeds and Corn from seed designated as Glufosinate-resistant. Glufosinate provides postemergence control of a broad spectrum of grass and broadleaf weeds and this product provides residual control of grasses and broadleaf weeds listed in the label section **This Product Applied Alone – Weeds Controlled.** For the proper rate of this product applied postemergence with Glufosinate, refer to Table 2 and use the minimum rate per soil texture for season-long residual control. Refer to the Glufosinate label for postemergence application rate according to weed species and their maximum height at the time of postemergence application. Where multiple weed species are present, use the highest Glufosinate rate specified to control the species and growth stages present.

B. This Product + Glyphosate for Postemergence Application to Glyphosate-resistant corn – The tank mixture of this product + Glyphosate can be applied postemergence to weeds and to Glyphosate-resistant corn. Application may be applied postemergence to Glyphosate-resistant corn up to 12 inches in height. This mixture will provide postemergence control of weed species on the Glyphosate product label and also residual control of weed species on this product label. Use the minimum rate of this product postemergence with Glyphosate Glyphosate-resistant corn as specified in Table 2 of this label according to soil texture. Refer to the Supplemental Labeling of Touchdown or Glyphosate for Postemergence Application to Glyphosate-resistant corn and to each product label and follow all appropriate use directions application procedures, use precautions, and limitations. Apply labeled rates of Glyphosate for control of labeled broadleaf and grass weeds. Refer to the Glyphosate label for directions to control problem species.

Where difficult species and/or severe weed populations are expected, use the maximum rate where rate ranges are listed.

C. This Product + Prosulfuron + Primisulfuron – Apply 1.33 to 1.75 quarts (1.0 to 1.4 lb ai atrazine and 0.8 to 1.1 lb ai metolachlor) per acre of this product + labeled rates of Prosulfuron + Primisulfuron to corn that is 4 to 12 inches tall. The application may be broadcast, semi-directed, or directed. The rate of this product is based on soil texture, with 1.33 quarts (1.0 lb ai atrazine and 0.8 lb ai metolachlor) per acre on coarse soils, and 1.75 quarts (1.4 lb ai atrazine and 1.1 lb ai metolachlor) per acre on medium and fine soils. **DO NOT** use on peat or muck soils. Add a non-ionic surfactant at 0.25% v/v.

This mixture is effective for control of many annual broadleaf weeds and some grasses. A few instances of broadleaf weed control antagonism have been observed with this combination. Control of certain annual grasses can be improved with the addition of Accent.

D. This Product + Prosulfuron + Primisulfuron + Nicosulfuron – Apply the same rates of this product and labeled rates of Prosulfuron + Primisulfuron. Add Nicosulfuron for more effective control of certain annual grasses. Apply to field Corn between 4 and 12 inches. Add a non-ionic surfactant at 0.25% v/v. The use of fertilizer or crop oil concentrate with this combination may cause injury to corn.

Note: DO NOT use fertilizer or crop oil concentrate with these mixtures or injury to field Corn may occur. The combination of this product with other products for postemergence weed control in Corn is generally not recommended. These combinations may cause injury and/or weed control concerns that would not exist when the products are used separately. A certain inherent risk is involved with the various combinations of these products used postemergence in corn. [It should be noted that early preplant, preplant incorporated or preemergence control of these weeds would usually provide more timely weed control resulting in higher yields than total postemergence treatments.]

Mixing Order

Add these products (Tank Mixtures C and D) to the tank mix in the following order:

1. Products in water-soluble bags should be added first.
2. This Product
3. Additives

Use Precautions: (1) Follow all label instructions, use precautions, and rotational restrictions for individual products when making these applications to field Corn. When this product is applied after June 10, crop injury may occur the following year if you rotate to crops other than Corn or Sorghum. (2) In-row weed control may be reduced because of lack of coverage when applied to Corn over 4 inches tall. (3) **DO NOT** graze or feed forage from treated areas for 60 days following application.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage and disposal.

PESTICIDE STORAGE: Storage should be under lock and key in a ventilated room and secure from access by unauthorized persons and children. Storage should be in a cool, dry area away from any heat or ignition source. **DO NOT** stack containers over 2 pallets high. Move containers by handles or cases.

DO NOT move containers from one area to another unless they are securely sealed. Keep containers tightly sealed when not in use. Keep away from any puncture source. Avoid storage near water supplies, food, feed and fertilizer to avoid contamination. Avoid contamination with oxidizing materials. Store in original containers only. If the contents are leaking or material is spilled, follow these steps:

1. Contain spill. Absorb with a material such as sawdust, clay granules or dirt.
2. Collect and place in suitable containers for disposal.
3. Wash area with soap and water to remove remaining pesticide.
4. Follow washing with clean water rinse.
5. Place a leaking container in a plastic tub and transfer contents, as soon as possible, to an empty, original container.
6. **DO NOT** allow runoff to enter sewer or contaminate water supplies.
7. Dispose of waste as indicated below.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of by using according to this product's label directions, or at an approved waste disposal facility.

CONTAINER DISPOSAL:

NONREFILLABLE CONTAINER (EQUAL TO OR LESS THAN 5 GALLONS): DO NOT reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

NONREFILLABLE CONTAINER (GREATER THAN 5 GALLONS): DO NOT reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling, if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Pressure rinse as follows (all sizes): Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

REFILLABLE CONTAINER: Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. After triple rinsing is complete, and the container is not suitable for refilling or reconditioning, offer the container for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ARCANA, LLC or Seller, TO THE EXTENT CONSISTENT WITH APPLICABLE LAW All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ARCANA, LLC and Seller harmless for any claims relating to such factors.

ARCANA, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or ARCANA, LLC, and TO THE EXTENT CONSISTENT WITH APPLICABLE LAW Buyer and User assume the risk of any such use. ARCANA, LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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